GOVERNMENT OF ANDHRA PRADESH

ABSTRACT

Water Resources Department – Neeru-Chettu / Neeru-Pragathi – Revised / Comprehensive guidelines for taking up works during 2017-18 – Orders –Issued.

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WATER RESOURCES (CAD) DEPARTMENT

G.O.Rt.No: 187 **Date: 19.04.2017**

Read the following

1. G.O. Ms. No: 20, Planning (VII) Dept. Dt. 26-09-2014
2. G.O. Ms. No: 22, Planning (VII) Dept. Dt. 09-10-2014
3. G.O. Ms. No: 70, I & CAD (CAD.1) Dept Dt. 04-12-2014
4. G.O. Rt. No: 798, I & CAD (CAD.1) Dept Dt. 05-12-2014
5. G.O. Rt. No: 531, Water Resources (CAD) Dept. Dt. 14-08-2015
6. G.O. Rt. No: 139, Water Resources (CAD) Dept. Dt 20-02-2016
7. G.O. Rt. No: 34, Water Resources (CAD) Dept. Dt 02-03-2016
8. Government memos issued from time to time regarding Neeru-Chettu.
9. From Chief Engineer, Minor Irrigation Letter No: DCE-I/ OT2 / T2 / Neeru-Chettu – Comprehensive guidelines Dt. -04-2017

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ORDER:

The Vision of the Government is to make the State drought proof and provide water security to all its citizens for drinking, irrigation and industrial needs. Government has taken up seven missions for invigorating the growth engines of the State. Primary Sector Mission is one among these missions and Water conservation mission is a sub-mission under this mission.

2. The Government has brought all water conservation & plantation activities into a campaign mode for ensuring convergence of resources, technologies and efforts of all concerned Departments under the name of Neeru-Chettu / Neeru-Pragathi to promote water conservation, Water Management & green cover improvement in a focused way.

3. De-silting of tanks, strengthening of tank bunds, repairs to sluices and weirs, Jungle clearance, repairs/ replacement of shutters, construction of check dams, excavation of farm ponds, development of cascades, de-silting of supply channels, irrigation channels, de-silting of canals, repairs of CD & CM works, strengthening of canal banks and repairs to shutters of sluices are also taken up. The Rural Development Department has also taken up construction / repairs of check dams, excavation of farm ponds, construction of other water harvesting structures and works of soil moisture conservation.

4. Neeru-Chettu / Neeru-Pragathi works are being taken up by all line Departments since last two years. This Programme has given very good outputs in water conservation and the Government has decided to continue the programme further in the financial year of 2017-18. Several G.Os and memos were issued from time to time by the Government for effective implementation of Neeru-Chettu programme.

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5. In order to streamline the programme, it is necessary to issue comprehensive / revised guidelines duly incorporating all the instructions and guidelines issued by the Government so far to provide clarity to the field staff for effective implementation of Neeru-Chettu works with more transparency and accountability.

6. Therefore, comprehensive guidelines have been framed and are issued as Annexure to this G.O for strict implementation of guidelines by all line Departments.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

SHASHI BHUSHAN KUAMR
SECRETARY TO GOVERNMENT

To
The Chief Engineer, Minor Irrigation, Water Resources Dept., Vijayawada.
The Engineer-in-Chief (Irrigation), Water Resources Dept., Vijayawada
The Engineer-in-Chief (IW/AW), Water Resources Dept., Vijayawada
All District Collectors
The Superintending Engineers,Water Resources Dept.,A.P.
The Director Ground Water & Water Audit Department, Vijayawada.
The Commissioner, Rural Development.
The Director, I & PR Department, Vijayawada.
The Director, Languages & Culture, Vijayawada.
The PCCF, Forest Department.
The Director, Agriculture Department.
The Addl. Director, Horticulture.
The Vice Chairman, APSAC.
The Commissioner, Fisheries.
The Commissioner, M.A & U.D.
The Director, Animal Husbandry.
Copy to
PS to Hon' ble Minister, Water Resources Dept.
PS to the Secretary, Water Resources Dept.
PS to Secretary to Hon'ble C.M. (GSP).
Sf/Sc.

//FORWARDED:: BY ORDER//

SECTION OFFICER

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GOVERNMENT OF ANDHRA PRADESH

WATER RESOURCES DEPARTMENT

COMPREHENSIVE GUIDELINES FOR

NEERU-CHETTU / NEERU-PRAGATHI PROGRAMME

2017-18

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COMPREHENSIVE GUIDELINES OF NEERU-CHETTU PROGRAMME FOR THE YEAR 2017-18

1.0 INTRODUCTION:

1.1 Present scenario of Irrigation potential in A.P:

Andhra Pradesh State has 4.08% (493.8 Lakh) of India's population and 5.06% (160,200 Sq. Km) of its land resources with a population density of 308 per Sq.Km (Census of India 2011). One of the key challenges faced by newly constituted State of Andhra Pradesh is to maintain accelerated growth of the primary sector as about 60% of the State's population depends on agriculture and allied livelihoods.

Minor Irrigation Wing of Water Resources Department deals with investigation, execution of Minor Irrigation sources having ayacut up to 2000 Ha (5000 Acres) besides the maintenance of these sources. There are 5441 Nos of M.I tanks (individual ayacut more than 100 Acres) with registered ayacut of 14.05 Lakh Acres and 35,376 Nos of erstwhile P.R tanks (individual ayacut less than 100 Acres) with registered ayacut of 8.01 Lakh Acres and also 661 Anicuts and open head channels with registered ayacut of 3.54 Lakh Acres. The total ayacut under Minor Irrigation sector in the State is 25.60 Lakh Acres under 40817 tanks and 661 Nos of open head channels and Anicuts. The irrigated area in the Year 2013-14 is about 9.96 Lakh Acres. The gap ayacut is being increased year by Year. The average gap ayacut during last 10 years is about 57%.

The reasons for decline of area irrigated under Minor Irrigation sources are as under.

a) Decrease in inflows to the tank due to inadequate rainfall, upstream obstructions and poor conditions of feeder channels.
b) Decrease in storage due to silting etc.
c) Deterioration of physical system for eg. Breaches in bund, poor condition of bund with unstable slopes, non-uniform TBL, improper condition of surplus systems. Defunct or inadequate functioning of sluices.
d) Poor Canal System
e) Poor Water use efficiency due to mono cropping of water intensive crops, improper distribution and scheduling of water to cover the entire ayacut.

1.2 Swarnandhra Vision -2029: The Vision of the Hon'ble Chief Minister of Andhra Pradesh is to make the state as 'drought proof' state within 5 years and is aimed to eradicate of poverty and reducing economic inequalities by better Water Conservation. Two aspects are:

1.2.1 Water Conservation, which would take into account the total rainfall, surface flow and the ground water and prepare a plan to make its optimum use by preventing wastage into the sea. The approach has to be from the ridge to the valley and the major departments to be involved in this exercise should be Irrigation, Forest, Rural Development and Ground Water.

1.2.2 Water Management, which would require making most efficient use of the conserved water for various sectors of state economy and the major departments involved in this exercise, would be agriculture, Animal Husbandry, Horticulture, Fisheries, Rural and Urban Water Supply etc.

The Government of Andhra Pradesh has a vision to be among the three best States in India by 2022 when India celebrates its 75th Year of Independence and to achieve the status of developed State by 2029. Towards this it is in the process of drafting a

Swanrandhra Vision 2029 document laying down the vision, road map and investment plan for the State.

2.0 INSTITUTIONAL ARRANGEMENTS:

2.1 Group of Ministers Recommendations: The Government Constituted the Group of Ministers with the following Ministers to finalize the Guidelines for implementation of the "Neeru-Chettu Programme" vide G.O. Rt. No: 2948 GAD dated 25-08-2014.

a. Hon'ble Minister for Irrigation, CAD & WRM.

b. Hon'ble Minister for Environment & Forest, Science & Technology.

c. .Hon'ble Minister for Agriculture, Agri-Processing, Marketing & Warehousing, Animal Husbandry, Dairy Development & Fisheries.

d. Hon'ble Minister for Rural Development Housing and Sanitation.

e. Hon'ble Minister for Panchayat Raj, RWS, NREGS.

f. Hon'ble Minister for Municipal Administration and Urban Development Urban Water supply and Urban Planning

The Principal Secretary to Government, Irrigation Department shall be the convener of the above Group of Ministers.

2.2 **Constitution of 7 Missions:** The following seven Missions were constituted by the Government vide G.O.Ms.No.20, Planning (VII) Dept., dated 26.09.2014 to focus on the activities / projects, which are critical for the social and economic growth of the State and require inter-departmental coordination.

i. Primary Sector Mission
ii. Social Empowerment Mission
iii. Knowledge and Skill Development Mission
iv. Industry Sector Mission
v. Infrastructure Mission
vi. Service Sector Mission
vii. Urban Development Mission

2.3 Constitution of Neeru-Chettu Sub-Mission under Primary Sector Mission:

2.3.1. Neeru-Chettu Sub-Mission: There are prolonged dry spells and floods. Andhra Pradesh has faced deficit rainfall for five years in the last decade. Indiscriminate use of available water (rainfall, surface water, ground water and soil moisture) led to water crisis. Hence the government has brought all water conservation & plantation activities into a campaign mode for ensuring convergence of resources, technologies and efforts of all concerned Departments under the name of Neeru-Chettu (Water and Tree) to promote water conservation, Water Management & green cover improvement in a focused way.

The Government vide G.O.Rt.No.798, I&CAD (CAD.1), Dept., dated 05.12.2014 have constituted Water Conservation (Neeru-Chettu) Sub-Mission under the Primary Sector Mission to have a focused approach on water conservation measures across the line Department with Irrigation & CAD Department (Now Water Resources Department) as the nodal Department for coordinating all the activities. The Sub-Mission will be chaired by the Hon'ble Minister for Water Resources. The Advisor (Irrigation & Water management) will be the vice Chairman and the Principal Secretary, Water Resources Department will be the coordinator of the Sub-Mission.

2.3.2. Executive Committee: In order to operationalise the guidelines on

Neeru-Chettu, an Executive Committee was set up in the Water Conservation (Neeru-Chettu) Sub-Mission with following:

i. Hon'ble Minister for Water Resources Department - Chairman
ii. Advisor to Government - Vice Chairman
iii. Principal Secretary / Secretary / Commissioner CADA – Member
iv. Principal Secretary, Rural Development - Member
v. Principal Secretary, Municipal Admin & Urban Devpt - Member
vi. Principal Secretary, RFS & T - Member
vii. Principal Chief Conservator of Forests - Member
viii. Commissioner CADA - Member
ix. Commissioner Rural Development - Member
x. Director General APSRAC / APSAC - Member
xi. Chief Engineer, Minor Irrigation - Member
xii. Director Ground Water - Member
xiii. Principal Secretary, Agriculture - Member
xiv. Principal Secretary, Animal Husbandry & Fisheries – Special Invitee
xv. Commissioner Horticulture - Special Invitee
xvi. Commissioner Agriculture - Special Invitee
xvii. Commissioner, Fisheries - Special Invitee
xviii. Commissioner, M.A & U.D - Special Invitee
xix. Director, Animal Husbandry - Special Invitee
xx. Engineer-In-Chief, Irrigation - Member/ Convener

Institutional arrangements on the above lines shall be made at District/ Regional / Municipality/ Village / Ward level as indicated below.

- **At District / Regional Level:** The District Collector will be the Chairman while Project Director, District Water management Agency (DWMA) will act as Nodal Officers to coordinate with Superintending Engineer (WRD), District Forest Officer (Forest Dept), Asst. Director (Horticulture), Regional Director (Municipal Administration) etc.
- **At Mandal / Municipality Level:** MPDO will act as nodal Officer to coordinate with Asst. Project Directors (RD), Horticulture Officers, Assistant Executive Engineers / Assistant Engineers (Irrigation), Forest Range Officers & Municipal Commissioner (MA & UD).
- **At Village / Ward Level:** Gram Panchayat as nodal institution to coordinate with Watershed Committees, Village Organizations, Water User Associations, Vana Samrakshana Samithis, Field Assistants etc.,

3.0 OBJECTIVES:

a) To drought proof the dry areas through conservation of water and ensure its optimum utilization for supplementing life saving irrigation and drinking water sources through integrated water resources development and management.

b) To bring all catchments and command areas of the irrigation sources under assured irrigation by rehabilitating them with watershed concept in a demand driven mode.
c) To maintain the Ground Water table in between 3 M and 8 M.
d) To reduce the gap Ayacut by 50% in the next 5 years by increasing water availability and improving water use efficiency in irrigated areas.
e) To treat the degraded lands and increase the area under green cover density of the existing forests in a systematic manner to achieve "Green Andhra".
f) To increase the area under production, the productivity and income strengthening the local self government institutions.

4.0 MAJOR INTERVENTIONS / ACTIVITIES:

4.1 Water Conservation & Management:

i) De-silting of tanks and breach restoration.

ii) Jungle clearance of bunds on top, side slopes and foreshore of tanks.

iii) Restoration of cascades, renovation of tanks and construction of new water harvesting structures by using latest remote sensing technology provided by APSAC.

iv) Catchment area treatment to prevent soil erosion and water conservation.

v) Training of Engineers and other staff on Neeru-Chettu Programme.

vi) Better water management through improved agricultural practices including cropping practice as envisaged in the project profile.

vii) Better monitoring water conservation by information Technology enabled Management Information System (MIS) and Geographical Information System (GIS).

viii) Conducting the water balance studies.

ix) Diverting water from surplus basins to deficit basins.

x) Carrying out the inventory of existing water harvesting structures.

xi) Conducting repairs to the water harvesting structure where needed.

xii) Construction of recharge pits for roof water harvesting (especially in urban areas)

xiii) Construction of series of Check Dams.

xiv) Interlinking of Rivers, Vagus and streams.

xv) Geo-tagging of all tanks and real time monitoring.

xvi) Strengthening of bunds with proper consolidation.

xvii) Repairs to tank sluices and repairs and replacement of Shutters.

xviii) Repairs surplus weirs

xix) Raising of Weaker section residential colonies

xx) Filling of burial grounds

xxi) Excavation of farm ponds

xxii) Excavation of peripheral trenches along boundaries of Minor Irrigation tanks under Neeru-Chettu Programme to avoid encroachments.

Xxiii) Repairs / reconstruction of Anicuts / Groynes

4.1.1 Works to be taken up in the Major and Medium Projects:

1) De-silting in Major canals, distributaries and minor canals.
2) Strengthening of canal banks
3) Repairs / reconstruction of CD & CM works
4) Repairs to shutters of sluices

4.2 Plantation:

- Avenue plantations, plantations in open spaces, canal banks, village community lands, and tank foreshores, Institutional plantations (Government office, Pvt. Institutions, schools, colleges etc.) and Homestead planting.
- Tree planting in degraded forest lands, barren hills, silvi-pasture lands, arid zones etc.
- Planting in farmers' lands and farm bunds.
- Raising plantations of timber, fruit and fodder bearing species in forest areas.
- Tending and cultural operations in degraded forest areas to improve the quality and density of scrub and open forest along creation and maintenance of fire lines.

4.3 Strategy / Approach:

- Optimizing conjunctive use of surface irrigation and ground water to enhance primary sector productivity.
- Increasing availability of water through maximum storage in the available reservoirs in major, medium and minor systems by reducing run-off to the sea by integrated ridge to valley watershed management including catchment area treatment.
- Increasing ground water recharge through formation of rainwater harvesting structures such as check dams, percolation tanks, minor irrigation tanks and structures such as sub-surface dams and farm ponds.
- Adopting water conservation and management practices such as participatory irrigation management, participatory groundwater management, adopting dry land farming, and promoting micro-irrigation practices, adopting appropriate cropping and cultivation practice.
- Treatment of forest areas in a scientific way by utilizing GIS and MIS.
- Following ridge to valley approach for arresting soil erosion and harvesting rain water as per watershed methodology for treating river basins / sub basins.

5.0 PLANNING OF THE SCHEME:

5.1 Planning:

Annual action plan shall be prepared keeping in view the following concepts.

- For planning of Neeru-Chettu Programme the Mandal will be the planning unit.
- Works shall be identified in ridge to valley concept with Cascade approach

- Series of check dams all along the streams and Rivers where ever feasible shall be constructed.
- Walk through surveys shall be carried out to identify the works.
- All the works proposed shall be identified by making use of the APSAC map / Resource map duly geo-tagging.
- The structures shall be properly marked on the Index map with proper colour code.
- Water Budget shall be prepared to each of the village considering the average rainfall and existing water bodies in the village in coordination with Ground Water Department.
- After completion of the entire process year wise, Work wise action plan shall be prepared for the financial years for 2017-18.
- High priority shall be given to the Ground Water Over exploited and Critical Villages.
- The action plan be presented before the Gram Sabha and shall have the approval from Gram Sabha, Gram Panchayat/Watershed Committee.

5.2 INFORMATION, EDUCATION & COMMUNICATION (IEC):

Means of communication and dissemination: Sharing information and proper communication plays a vital role in creating awareness and effective implementation of schemes at grass root level. With a view to provide a fillip to Neeru-Chettu Programme, awareness programmes (Avagahana sadassulu) i.e., an intensive awareness building campaign and public discussions on the subject of importance of water conservation were conducted in all Villages of the State. Neeru-Pragathi campaigns were conducted with a view to generate awareness on water issues at grass root level and the same are to be continued. It has been decided to create and maintain Village Level Water Resources Model (VLWRM) in all Gram Panchayaths of the State.

There is a necessity of a well designed programme to generate awareness among the village communities and ensure their participation in the programme by using appropriate information Education & Communication (IEC) material, especially in simple Telugu. A campaign should be taken up in all the villages through deploying dedicated teams.

i. Five year perspective plans have to be developed for Water Conservation, Water Management and Plantation in convergence with MGNREGS and all partner Departments of NCM.

ii. Annual Action plans need to be prepared and targets along with timelines have to be fixed as per the available funds. However, the action plans need to be revisited from time to time depending on the sanctioning of the new projects and availability of additional funding.

iii. Detailed action plan on water conservation and soil conservation have to be taken up in all the villages specifically by the Rural Development, Agriculture and Horticulture Departments.

iv. Integrated plan has to be developed for judicious use of rainfall, surface water, ground water and residual moisture to improve water use efficiency and to increase Ayacut under projects. It is contemplated to enhance the existing water use Efficiency (WUE) by 20%.

v. Identification and restoration of existing, water harvesting structures executed by various departments has to be done by the Rural Development with the help of technical support from engineering departments.

vi. The territorial chief engineers and superintending engineers of irrigation circles will execute major harvesting structures as per the action based on the run-off calculations for the catchment area.

vii. Ground Water and Water Audit Department shall take up village wise ground water budgeting through their Deputy Directors at District level and disseminate information at village level for planning, identifying the sites for rain water harvesting structures as referred to by different departments & Prepare conjunctive use plans under major, medium and minor irrigation sources for implementation by Water Resources Department to close the gap Ayacut.

viii. For plantation, suitable at village / Municipal ward level along with beneficiaries have to be identified through Grama Sabha/Ward Committee in municipal areas and common action plans need to be developed at village level with convergence between Self Help Groups (SHGS), Watershed Committees (WSCs), Water User Associations (WUAs) Vana Samrakshana Samithis (VSSs), Village Organization (VOs), other Community based Organizations (CBOs), Non-Govt. Organization (NGOs) and at ward level in convergence with SHGs, SLFs, TLFs & NGOs.

ix. Measures should be taken to avoid duplication of activities / works while planning.

x. All action plans have to be placed in the Grama Sabha for obtaining the approval and submitting to respective district authorities for technical and administrative sanctions.

xi. At District level, convergence action plans have to be evolved by consolidating plans of all partner Departments. Similarly, Department wise action plans have to be consolidated at the state level.

5.3 District level arrangements:

The Executive Committee members under the Chairmanship of Hon'ble Minister for Irrigation & Water Resources Management discussed on various aspects for effective implementation of Neeru-Chettu programme with a Co-Ordination of all the Nodal Departments and issued the guide lines as under.

5.3.1 One Chief Engineer from Water Resources Dept., shall be appointed as **District Water Resources Officer** for one district and made responsible for effective implementation of the Neeru-Chettu in that District. He shall report the daily progress of all the works taken up in the district to the Office of the Hon'ble Chief Minister and Hon'ble Ministers and to Secretaries of concerned line Department. He shall also Co-ordinate with the District Collectors and Superintending Engineers & other HOD's available in the District and issue timely orders if any required for implementation of Neeru-Chettu.

There should not be any drought in the coming years and the Water Resources Department is the custodian of all Water Resources and water related work sin the State. The District Water Resources Officer i.e., Chief Engineer of the District should prepare the District Project Report containing all details of water Resources of the District. The Chief Engineers are appointed to each District to review the progress of the Neeru-Chettu works. The Chief Engineers (District Water Resources Officer) should actively participate in effective implementation of Neeru-Chettu guidelines issued from time to time by the

Government and also in furnishing of the data pertaining to Water Resources of the Districts. The Chief Enginner, Minor Irrigation will co-ordinate with all the Chief Engineers and District Water Resources Officers in respect of Neeru-Chettu works. The following are the Chief Engineers designated as Chief Engineer & District Water Resources Officer to each District.

Sl. No	Name of the District	Chief Engineer designated as Chief Engineer & District Water Resources Officer
1	Srikakulam	Chief Engineer, Interstate Water Resources, vijayawada
2	Vizianagaram	Chief Engineer, HRD, Vijayawada
3	Vishakhapatnam	Chief Engineer, North Coast, Vishakhapatnam
4	East Godavari	Chief Engineer, GDS, Dowlaishwaram
5	West Godavari	Chief Engineer, Quality Control, Dowlaishwaram
6	Krishna	Chief Engineer, KDS, Vijayawada
7	Guntur	Chief Engineer, Hydrology, Vijayawada
8	Prakasam	Chief Engineer (Projects), Ongole
9	SPSR Nellore	Chief Engineer, Quality Control, Kadapa
10	YSR Kadapa	Chief Engineer (Projects), Kadapa
11	Kurnool	Chief Engineer (Projects), Kurnool
12	Ananthapuram	Chief Engineer (Projects), Ananthapur
13	Chittoor	Chief Engineer, Telugu Ganga Project, Tirupati

5.3.2 One Superintending Engineer from Water Resources Dept., shall be appointed as **Nodal Officer** for each District and made responsible for effective implementation and review of progress of works taken up under Neeru-Chettu within the District. He shall report daily progress of all the works taken up in the District to the District Water Resources Officer i.e., Chief Engineer appointed for that District, Chief Engineer, Minor Irrigation and the District Collector.

5.3.3 One Executive Engineer from Water Resources Dept., shall be appointed as **Divisional Officer** and made responsible for effective implementation and progress of works taken up under Neeru-Chettu within the division and he shall report daily progress of works taken up under Neeru-Chettu to the Nodal Officer (SE).

5.3.4 The Chief Engineer i.e., District Water Resource Officers shall issue necessary orders for appointing the Deputy Executive Engineers as Constituency Officers and the AEE/ AE as Mandal Officer who are responsible for effective implementation of Neeru-Chettu.

5.3.5 The identification and grounding of works under Neeru-Chettu will be done by **Mandal Team,** comprising the following officers of that Mandal.

a) AE/AEE/DEE of WR Dept (appointed by CE / SE) - Member Convener
b) Tahsildar - Member
c) MPDO - Member
d) Forest Range Officer - Member
e) Agriculture Officer - Member
f) One officer from Fisheries & Horticulture Department - Members
g) Village Revenue Officer of the Village in which the tank falls - Members

5.3.6 The Mandal team member convener {AE/AEE of WRD} will visit the village and stay at the Village for 2 days and receive the requisitions in respect of works. The above Mandal Team shall invariably visit at least two villages and conduct Gram Sabhas to identify the tanks in which de-siltation and other works such as construction of series of check dams, restoration of tank bund, repairs to sluices and surplus weirs, de-silting of feeder, supply and approach channels, de-silting of Distributory canals of Major and Medium Irrigation projects. During Gram Sabha, the Mandal Team shall receive written requisitions from the formers who are willing to take the silt from the tank bed to their fields at their own cost. Based on the requisitions the member convener of the Mandal team shall ascertain the quantity of de-siltation and prepare the detailed estimates as per Water Resources Department norms with rates being communicated by the Government and current SSR. These estimates will be submitted to the District Collector / Government through proper channel for getting Administrative Approval. The following points are to be kept in view while preparing the estimates.

i} Only one estimate shall be prepared for one tank for all proposed components irrespective of cost.

Ii} There should not be any duplication of tanks under proposal with the tanks taken up under MGNREGS and other ongoing schemes viz., NSP, RRR, APIIATP {World Bank Phase-II}, JICA, NABARD, SCSP and TSP etc.,

All the Neeru-Chettu works shall be taken up only after receipt of Administrative Approval from the District Collector / Government and to the extent of amount sanctioned.

5.3.7 The area within the tank where de-siltation is to be done will be decided by the Water Resources Department Officials strictly in accordance with the technical guidelines.

5.3.8 The Mandal Team can shift the excavator(s) from one tank to another tank based on the necessity and shall report the same to the Constituency officer and Divisional Officer prior to closing of de-siltation programme in the Mandal.

5.3.9 The village Revenue officer / G.P. Secretary of the village in which the tank falls shall maintain a daily record of number of hours the excavators worked in the tank for de-siltation and also number of trips of soil transported by the formers and ascertain the daily quantity of silt transported. This record shall be kept at site of work and shall take the signatures of all the inspecting officers of the work. Village level team will monitor day to day work. Village team will be headed by the Sarpanch.

5.3.10 The execution of works / de-siltation shall be done under strict supervision of Mandal Team duly following all the Departmental procedures and Government orders in force and necessary recordings shall be made in the Measurement Books by the AE/AEEs of Irrigation Department and shall be check measured by the Dy.EEs/EEs.

5.3.11 The Departmental AE/AEE of WRD shall inspect the work sites daily and see that the de-silting and other works be carried out as per specification.

5.3.12 The Dy.EE of WRD shall inspect the work sites regularly and see that the de-silting and other works be carried out as per specification.

5.3.13 The Executive Engineer shall inspect all the works while in progress and see that the de-silting and other works be carried out as per specification.

5.4 Preparation of estimates: The estimate shall be prepared by the concerned Water Resources Department AEE/AE for Neeru-Chettu Programme as per the rates communicated by the Government from time to time for de-silting works and current SSR rates for other items of Neeru Chettu programme. The estimates thus prepared shall be kept in web site of Water Resources Department in the prescribed proforma annexed. The Nodal Officer/ SE has to prepare the action plan for Neeru-Chettu Programme for the year 2017-18 depending upon works proposed.

5.5 Approvals from competent authority: The District Collectors will issue administrative sanction for Neeru-Chettu works.

6.0 IMPLEMENTATION OF THE SCHEME:

6.1 Entrustment of works: The Neeru-Chettu works of cost less than Rs. 10.00 Lakhs shall be entrusted to the Water Users Associations if the ayacut of the tank is more than 100 Acres and the works of tanks whose ayacut is less than 100 Acres shall be entrusted to Janmabhoomi-Maavooru Committees as the case may be. The works of cost Rs. 10.00 lakhs and above shall be entrusted by calling tenders through e-procurement plot form in relaxation of the procedure and financial limit laid down in G.O.Ms. No:- Finance {Works Projects –F7} Dept Dated 03.02.2014.

6.2 Execution of works and technical guidelines and precautions to be taken up during de-silting of tanks:

i. Priority of the tanks to be de-silted shall be identified by the Water Resources Department Officials duly involving the public representatives, public and the Officers of all line Departments.
ii. Field staff has to furnish the demarcation maps of all tanks proposed for de-silting duly signed by them before commencement of de-silting process.
iii. De-silting shall be carried as per the depths directed by Water Resources Department officials.
iv. De-silting shall be done from the demarcated area furnished duly following the quantities mentioned by the Engineering Staff.
v. The quantity of silt to be excavated from the tank shall be calculated and furnished daily.
vi. The pre levels before commencement of the work and final levels after completion of the work shall be recorded and check measured.

vii. The Superintending Engineer shall inspect and examine the tank bed and prioritize the de-siting area so as to achieve multiple benefits.
viii. De-silting work shall be taken up uniformly but not isolated locations.
ix. The roads and thandus formed in the tank shall be removed after completion of de-siltation.
x. The damages occurred, if any to the tank during the de-siltation process shall be rectified to the original standards.
xi. The silt generated from excavation should be used for application to Agriculture fields and for Government work.
xii. De-silting shall be done far away from railway tracks as per Railway codal rules.
xiii. De-silting shall be done beyond the distance equivalent to 10 x H (where H = Height of bund) from the toe of the earth bund of tank.
xiv. De-silting shall not be done below sill level of lowest sluice.
xv. The field staff shall take photographs before commencement of the work and after completion of work.

7.0 MONITORING:

7.1 Establishment of Monitoring Cell: The state Neeru-Chettu Monitoring Cell (NCMC) was set up in the Office of the Chief Engineer, Minor Irrigation for collecting and collating information on the progress of works under Neeru-Chettu from all the line Departments.

7.2 It is the responsibility of the district Nodal Officer (Superintending Engineer) to collect the progress reports from all the line Departments in the district and consolidate and submit the same to all the Departmental hierarchy.

7.3 Establishment of Web-Portal: A web portal(www.irrigationap.cgg.gov.in) is established to upload all the information of works of Neeru-Chettu.

8.0 <u>QUALITY CONTROL CHECKS:</u>

8.1 The Inspection & Quality Control authorities shall inspect all the Neeru-Chettu works while in progress and conduct quality checks while the works are in progress and report any deficiencies in the quality and quantity of works.

8.2 The quality control certificate shall be issued only after thorough verification of each and every work taken up under Neeru-Chettu programme during the execution of works and after completion.

8.3 The Inspection & Quality Control Officials shall invariably verify and monitor all the records being maintained by the executing staff.

8.4 The Inspection & Quality Control Officials shall verify and final levels of all Neeru-Chettu works during and after completion.

9 .0 PAYMENT OF BILLS:

9.1 The field staff shall record all the measurements immediately after completion of the particular component of work.

9.2 There shall not be time lapse between completion of the work and recording of measurements.

9.3 The bills shall be prepared soon after recording the measurements and submit to PAO weekly for payment.

9.4 All the levels and measurements shall be recorded well before onset of monsoons.

9.5 The levels and measurements recorded after receipt of water in the tanks/canals are not valid and not eligible for payment.

9.6 The Chief Engineers & District Water Resources Officers and SEs (Nodal Officers) shall review the progress of Neeru -Chettu works weekly and ensure the above instructions and submit the report to the Chief Engineer, Minor Irrigation.

10. FURTHER INSTRUCTIONS:

Works administratively sanctioned during 2016-17

10.1 The Neeru-Chettu works administratively sanctioned by the District Collectors during the financial year 2016-17, but not grounded are deemed to be cancelled with effect from 30-06-2017.

10.2 The Neeru-Chettu works which are grounded and in progress shall be invariably completed in all respects and the bills shall be sent to PAO for payments by 30-06-2017.

10.3 The Neeru-Chettu works that are not completed by 30-06-2017 shall be closed for the extent of work done.

10.4 The balance portion of works shall be proposed as fresh estimates and obtain fresh administrative approvals from the competent authority in accordance with clause No: 5.5 above w.e.f 01-07-2017.

Works administratively sanctioned during 2017-18

10.1 Neeru-Chettu programme is a continuing and on-going flagship programme of Government of Andhra Pradesh.

10.2 The works administratively approved by the competent authority after 01-04-2017 in accordance with clause No: 5.5 above will be continued beyond 30-06-2017 and the above clauses from 10.1 to 10.4 does not applicable to these works.

10.3 All the works proposed for the year 2017-18 shall be registered in Neeru-Chettu website before submitting the estimates to the District Collector for administrative approval. While registering the estimate in the web-site, the photos of works components shall also be uploaded in the web-site.

10.4 On registration of the work, an ID will be generated and the same ID shall mention on the estimate to be submitted for administrative approval.

10.5 Weekly progress report shall be uploaded in the Neeru-Chettu web-site i.e., on every Saturday. The quantities thus uploaded will be freezed on that Saturday without giving room for modifications in later date.

10.6 The payment will be made based on the progress uploaded in the website. The PAO will not accept the work done bills without uploading the progress in the website.

10.7 All the guidelines issued so far vide G.Os and Government memos in respect of **Neeru-Chettu programme** holds good.

11.00 Department wise works to be taken up:

11.1 Minor Irrigation :

11.11 Jungle Clearance of bunds on top, sides and in foreshore of all tanks having ayacut more than 50 Acres. Jungle clearance (light & thick) shall be carried out as per rates communicated by the Government. Light jungle & Thick jungle shall be

distinguished by taking visual videos with drones and photos before and after clearance of jungle.

11.12 De-silting, improvements & restoration of all tanks having ayacut more than 50 Acres.

11.13 Development of Cascades including all the links in between all the tanks of each cascade shall be taken up.

11.14 Construction of check dams of medium check dams (1,713 Nos) and big check dams (1,558 Nos) out of 14,890 check dams identified by APSAC of cost more than Rs. 3.00 Lakhs shall be taken up.

11.15 Excavation of farm ponds of sizes 10M x 10 M x 2 M and 12 M x 12 M x 2 M shall be excavated in the land holding more than 5 Acres based on area of each land holding.

11.2 <u>Major Irrigation:</u>

11.21 The following activities shall be taken up in Godavari Delta system, Krishna Delta System, Penna Delta System and Vamshadhara Projects.

a) De-silting in Major canals, distributaries and minor canals of

b) Strengthening of canal banks

c) Repairs / reconstruction of CD & CM works

d) Repairs to shutters of sluices

11.3 <u>APSIDC:</u>

11.31 New Lift Irrigation Schemes shall be taken up to create new irrigation potential.

11.32 Revival of existing LI schemes for stabilization of registered ayacut.

11.4 <u>Rural Development:</u>

11.41 Jungle Clearance of bunds on top, sides and in foreshore of all tanks having ayacut less than 50 Acres.

11.42 De-silting, all tanks having ayacut less than 50 Acres.

11.43 Construction of check dams of small check dams (11,619 Nos) out of 14,890 check dams identified by APSAC of cost less than Rs. 3.00 Lakhs shall be taken up.

11.15 Excavation of farm ponds of sizes 5 M x 5 M x 2 M and 8 M x 8 M x 2 M shall be excavated in the land holding less than 5 Acres based on area of each land holding.

11.5 <u>Forest Department:</u>

11.51 Raising of nurseries.

11.52 Raising of avenue plantations and block plantations.

11.53 Taking up of Soil Moisture Conservation (SMC) works.

11.54 Excavation of water absorption trenches, Continuous Contour trenches (CCT) and Mini Percolation tanks (MPTs).

11.55 Construction of Check dams.

11.6 <u>Agriculture Department</u>

11.61 Construction of water harvesting structures, restoration of storage structures in cluster villages shall be taken up.

11.62 Agro-forestry shall be taken up.

11.63 Plantation shall be distributed during Kharif rains.

11.64 Agriculture intercrop shall be raised along with plantation to increase the income to farmers.

11.7 Horticulture Department:

11.71 Quality plant material shall be supplied.

11.72 Micro irrigation shall be widely promoted to save water and increase productivity.

11.73 Dry land horticulture and efficient utilization and management of available water through micro irrigation shall be promoted.

11.74 Creation of water harvesting structures in farmers fields.

11.8 Fisheries Department:

11.81 Excavation of captive fish seed rearing ponds in all Minor Irrigation tanks, Gram Panchayat tanks and Major / medium reservoirs.

11.82 De-silting & de-weeding of creeks / drains.

11.9 Information & Public Relation Department:

11.91 I & PR Dept shall organize media conferences, study tours, publish wall posters, hand bills, pamphlets, success stories and other adhoc publications.

11.92 I & PR Dept shall issue advertisements to print and electronic media, outdoor media like hordings, bill boards etc.,

11.93 I & PR Dept shall organize media campaign through kalajatha, street plays etc.,

11.94 Department of Culture shall conduct culturalprogrammes, festivals and state functions.

11.9.0 Ground Water Department:

11.9.1 GWD shall monitor water levels on real time basis under real time ground water level monitoring system through 1254 piezometrers.

11.9.2 Drilling of 200 and 100 bore / tubewells under Special component sub-plan and tribal sub-plan respectively.

11.9.3 Investigation of sites for selection of feasible sites for construction of bore wells under NTR Jala Siri Phase-II.

11.9.4 Planning of web portal for Andhra Pradesh Water Resources Information and Management system.

11.9.5 Pilot injection wells project for Ground Water recharge in Sand stone areas of East Godavari, West Godavari and Krishna Districts.

12 BUDGET & FUNDING:

12.1 The State Government shall provide the necessary budget for Neeru-Chettu programme under Normal State Plan.

12.2 The central Government funds shall be utilized for the Neeru-Chettu works taken up under MGNREGS.